

~~a processor responsive to a selected resolution level for operating on the~~  
pixels comprising the image signal to generate image data corresponding to the image signal  
and exhibiting a selected resolution level.

22. (New) The electronic camera of Claim 21, further comprising a memory unit  
for storing a plurality of frames of image data generated by the processor, each frame  
exhibiting any one of the plurality of resolution levels selected by the means for selecting.

23. (New) The electronic camera of Claim 22, further comprising means for storing  
an indication of a selected resolution level with each frame of image data in the memory unit.

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24. (New) The electronic camera of Claim 22, wherein the memory unit includes  
a memory device removably coupled to the electronic camera.

25. (New) The electronic camera of Claim 23, wherein the memory unit includes  
a memory device removably coupled to the electronic camera.

26. (New) An electronic camera adapted for capturing and processing images of  
different resolution, said camera comprising:

an image sensor having a two dimensional array of photosites;  
an image signal generator corresponding to a two-dimensional image  
captured by said image sensor;

a resolution mode switch for selecting one of a plurality of resolution  
levels for the image signal; and

~~a processor responsive to a selected resolution level for operating on the~~  
image signal to generate image data corresponding to the image signal and exhibiting a selected resolution level.

27. (New) The electronic camera of Claim 26, further comprising a memory unit for storing a plurality of frames of image data generated by the processor, each frame exhibiting any one of the plurality of resolution levels selected by the resolution mode switch.

28. (New) The electronic camera of Claim 27, further comprising a data tag indicating a selected resolution level stored by the processor with each frame of image data in the memory unit.

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29. (New) The electronic camera of Claim 27, wherein the memory unit includes a memory medium removably coupled to the electronic camera.

30. (New) The electronic camera of Claim 28, wherein the memory unit includes a memory medium removably coupled to the electronic camera.

31. (New) An electronic camera adapted for capturing and processing images of different resolution, said camera comprising:

an image sensor having a two-dimensional array comprised of pixels covered by a color filter array composed of at least three differently-colored filters arranged in a predetermined geometry;

means for generating an image signal corresponding to a two-dimensional array of color image pixels captured by said image sensor;

means for selecting one of a plurality of resolution levels for the image signal; and

~~a processor responsive to a selected resolution level for operating on the~~  
image signal to generate image data corresponding to the image signal and exhibiting a selected resolution level.

32. (New) The electronic camera of Claim 31, further comprising a memory unit for storing a plurality of frames of image data generated by the processor, each frame exhibiting any one of the plurality of resolution levels selected by the means for selecting.

33. (New) The electronic camera of Claim 32, further comprising means for storing an indication of a selected resolution level with each frame of image data in the memory unit.

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34. (New) The electronic camera of Claim 32, wherein the memory unit includes a memory device removably coupled to the electronic camera.

35. (New) The electronic camera of Claim 33, wherein the memory unit includes a memory device removably coupled to the electronic camera.

36. (New) An electronic camera adapted for processing images of different resolution, said camera comprising:

an image sensor for generating an image signal representative of image pixels arranged in vertical and horizontal directions as obtained from a two-dimensional array of photosites;

a buffer memory having sufficient capacity for storing the image pixels corresponding to a plurality of image signals;

a resolution mode switch for selecting one of a plurality of resolution levels for each image signal;—

~~a controller responsive to the pixel resolution level selected by the~~  
resolution mode switch to operate on each image signal in the buffer memory in a manner  
yielding an image signal pixel array altered, if necessary, to reflect the selected resolution;

an output memory connected subsequent to the buffer memory for  
storing the altered image pixel arrays; and

means for storing each altered image signal pixel array in said output  
memory.

37. (New) The electronic camera of Claim 36, further comprising a data tag  
indicating a selected resolution level stored by the means for storing with each altered image  
signal pixel array.

38. (New) The electronic camera of Claim 36, wherein the output memory includes  
a memory medium removably coupled to the electronic camera.

39. (New) The electronic camera of Claim 37, wherein the output memory includes  
a memory medium removably coupled to the electronic camera.

40. (New) An electronic video image signal output data format translator  
comprising:

input means for receiving image signals corresponding to sensed picture  
information;

means for selecting one of a plurality of resolution levels for a received  
image signal; and

converter means responsive to a selected resolution level for operating  
on the received image signal to generate image data corresponding to the received image signal  
~~and exhibiting a selected resolution level.~~

~~41. (New) The translator of Claim 40, further comprising a memory unit for storing a plurality of frames of image data generated by the converter means, each frame exhibiting any one of the plurality of resolution levels selected by the means for selecting.~~

42. (New) The translator of Claim 41, further comprising means for storing an indication of a selected resolution level with each frame of image data in the memory unit.

43. (New) The translator of Claim 41, wherein the memory unit includes a memory device removably coupled to the translator.

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44. (New) The translator of Claim 42, wherein the memory unit includes a memory device removably coupled to the translator.

45. (New) A method of converting and storing a plurality of sensed image signals in an image processing device comprising:

selecting, for each image signal to be processed by the device, any one of a plurality of resolution levels;

processing each image signal in accordance with its selected resolution level to generate a frame of image data representing the sensed image signal and exhibiting the selected resolution level; and

storing each frame of image data in a memory device, wherein memory space utilization is optimized in that each of the plurality of frames of image data has its own preselected resolution level.

46. (New) The method of Claim 45, further comprising storing in the memory device with each frame of image data an indication of which of the plurality of resolution levels has been selected.